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*van Beek, P.; Smith, J.R.; Ebrahimi, T.; Suzuki, T.; Askelof, J.;*
Signal Processing Magazine, IEEE , Volume: 20 , Issue: 2 , March 2003
Pages:40 - 52

[Abstract] [PDF Full-Text (1031 KB)] **IEEE JNL**

2 **Image and video coding-emerging standards and beyond**
*Haskell, B.G.; Howard, P.G.; LeCun, Y.A.; Puri, A.; Ostermann, J.; Civanlar, M.R., Rabiner, L.; Bottou, L.; Haffner, P.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 8 , Issue: 7 , Nov. 1998
Pages:814 - 837

[Abstract] [PDF Full-Text (904 KB)] **IEEE JNL**

3 **Multimedia technologies in medicine: the role of emerging standards**
*Puentes, J.; Roux, C.;*
Information Technology Applications in Biomedicine, 2000. Proceedings. 2000 IEE EMBS International Conference on , 9-10 Nov. 2000
Pages:4 - 9

[Abstract] [PDF Full-Text (580 KB)] **IEEE CNF**



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1 **Visual segment tree creation for MPEG-7 description schemes**
*Salembier, P.; Llach, J.; Garrido, L.;*
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 2 , 30 July-2 Aug. 2000
Pages:907 - 910 vol.2

[Abstract] [PDF Full-Text (368 KB)] **IEEE CNF**

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2 **Content-based navigation of television programs using MPEG-7 description schemes**
*Walker, T.;*
Consumer Electronics, 2000. ICCE. 2000 Digest of Technical Papers. Internationa Conference on , 13-15 June 2000
Pages:272 - 273

[Abstract] [PDF Full-Text (184 KB)] **IEEE CNF**

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3 **Extending MPEG-7 description scheme of moving regions by the semantic visual-spatio-temporal relationships**
*Aghbari, Z.; Makinouchi, A.;*
Multimedia and Expo, 2003. ICME '03. Proceedings. 2003 International Conferenc on , Volume: 3 , 6-9 July 2003
Pages:III - 269-72 vol.3

[Abstract] [PDF Full-Text (373 KB)] **IEEE CNF**

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4 **Conceptual modeling of audio-visual content**
*Smith, J.R.; Benitez, A.B.;*
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 2 , 30 July-2 Aug. 2000
Pages:915 - 918 vol.2

[Abstract] [PDF Full-Text (304 KB)] **IEEE CNF**

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5 **A video metadata application and its verification test using NIPEG-7**

**description and watermarked content ID**

*Ishibashi, Y.; Watabe, S.; Ito, M.; Kogure, T.; Hiki, H.; Tanno, Y.; Kawabata, M.; Mishima, H.; Chih-Chang Hsu; Hasegawa, F.;*

Applications and the Internet Workshops, 2003. Proceedings. 2003 Symposium on , 27-31 Jan. 2003

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[Abstract] [PDF Full-Text (1084 KB)] **IEEE CNF**

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*Magli, E.; Taubman, D.;*
Geoscience and Remote Sensing Symposium, 2003. IGARSS '03. Proceedings. 2003 IEEE International , Volume: 1 , 21-25 July 2003
Pages:654 - 656 vol.1

[Abstract] [PDF Full-Text (1301 KB)] **IEEE CNF**

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2 **Metadata-driven multimedia access**
*van Beek, P.; Smith, J.R.; Ebrahimi, T.; Suzuki, T.; Askelof, J.;*
Signal Processing Magazine, IEEE , Volume: 20 , Issue: 2 , March 2003
Pages:40 - 52

[Abstract] [PDF Full-Text (1031 KB)] **IEEE JNL**

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3 **Image and video coding-emerging standards and beyond**
*Haskell, B.G.; Howard, P.G.; LeCun, Y.A.; Puri, A.; Ostermann, J.; Civanlar, M.R., Rabiner, L.; Bottou, L.; Haffner, P.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 8 , Issue: 7 , Nov. 1998
Pages:814 - 837

[Abstract] [PDF Full-Text (904 KB)] **IEEE JNL**

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4 **Specialized telepathology electronic patient record based on JPEG 200(**
*Montesinos, L.; Puentes, J.;*
Information Technology Applications in Biomedicine, 2003. 4th International IEEE EMBS Special Topic Conference on , 24-26 April 2003
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[Abstract] [PDF Full-Text (681 KB)] **IEEE CNF**

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1 **Everything you wanted to know about MPEG-7. 1**
*Nack, F.; Lindsay, A.T.;*
Multimedia, IEEE , Volume: 6 , Issue: 3 , July-Sept. 1999
Pages:65 - 77

[Abstract] [PDF Full-Text (420 KB)] **IEEE JNL**

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2 **An overview of the MPEG-7 description definition language (DDL)**
*Hunter, J.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 6 , June 2001
Pages:765 - 772

[Abstract] [PDF Full-Text (84 KB)] **IEEE JNL**

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3 **MPEG-7: the generic multimedia content description standard, part 1**
*Martinez, J.M.; Koenen, R.; Pereira, F.;*
Multimedia, IEEE , Volume: 9 , Issue: 2 , April-June 2002
Pages:78 - 87

[Abstract] [PDF Full-Text (404 KB)] **IEEE JNL**

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4 **MPEG-7 visual motion descriptors**
*Jeannin, S.; Divakaran, A.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 6 , June 2001
Pages:720 - 724

[Abstract] [PDF Full-Text (72 KB)] **IEEE JNL**

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5 **MPEG-7 visual shape descriptors**
*Bober, M.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 6 , June 2001
Pages:716 - 719

[Abstract] [PDF Full-Text (156 KB)] IEEE JNL

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6 **MPEG-7 Systems: overview**
*Avaro, O.; Salembier, P.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 11 , Issue: 6 , June 2001
Pages:760 - 764

[Abstract] [PDF Full-Text (100 KB)] IEEE JNL

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7 **Robust parametric motion estimation for image mosaicing in the MPEG· standard**
*Wallin, H.; Christopoulos, C.; Furesjo, F.;*
Image Processing, 2001. Proceedings. 2001 International Conference on , Volume 2 , 7-10 Oct. 2001
Pages:961 - 964 vol.2

[Abstract] [PDF Full-Text (360 KB)] IEEE CNF

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8 **MPEG-7: a standard for describing audiovisual information**
*Pereira, F.;*
Multimedia Databases and MPEG-7 (Ref. No. 1999/056), IEE Colloquium on , 29 Jan. 1999
Pages:6/1 - 6/6

[Abstract] [PDF Full-Text (576 KB)] IEE CNF

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9 **The utility of MPEG-7 systems in audio-visual applications with multiple streams**
*Lopes, R.J.; Lindsay, A.T.; Hutchison, D.;*
Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 13 , Issue: 1 , Jan. 2003
Pages:16 - 25

[Abstract] [PDF Full-Text (379 KB)] IEEE JNL

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10 **Hierarchical rotational invariant similarity measurement for MPEG-7 homogeneous texture descriptor**
*Yong Man Ro; Ho Kyung Kang;*
Electronics Letters , Volume: 36 , Issue: 15 , 20 July 2000
Pages:1268 - 1270

[Abstract] [PDF Full-Text (312 KB)] IEE JNL

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11 **SOLO: an MPEG-7 optimum search tool**
*Lay, J.A.; Ling Guan;*
Multimedia and Expo, 2000. ICME 2000. 2000 IEEE International Conference on , Volume: 2 , 30 July-2 Aug. 2000
Pages:777 - 780 vol.2

[Abstract] [PDF Full-Text (400 KB)] IEEE CNF

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12 **Content-based navigation of television programs using MPEG-7 description schemes**
*Walker, T.;*
Consumer Electronics, 2000. ICCE. 2000 Digest of Technical Papers. Internationa Conference on , 13-15 June 2000

Pages:272 - 273

[Abstract] [PDF Full-Text (184 KB)] **IEEE CNF**

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13 **Semantics of multimedia in MPEG-7**

*Benitez, A.B.; Rising, H.; Jorgensen, C.; Leonardi, R.; Bugatti, A.; Hasida, K.; Mehrotra, R.; Murat Tekalp, A.; Ekin, A.; Walker, T.;*

Image Processing. 2002. Proceedings. 2002 International Conference on , Volume 1 , 22-25 Sept. 2002

Pages:I-137 - I-140 vol.1

[Abstract] [PDF Full-Text (377 KB)] **IEEE CNF**

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14 **The MPEG-7 standard and the content-based management of three-dimensional data: a case study**

*Paquet, E.; Rioux, M.;*

Multimedia Computing and Systems, 1999. IEEE International Conference on , Volume: 1 , 7-11 June 1999

Pages:375 - 380 vol.1

[Abstract] [PDF Full-Text (52 KB)] **IEEE CNF**

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15 **Face recognition of video sequences in a MPEG-7 context using a globa eigen approach**

*Lorente, L.; Torres, L.;*

Image Processing, 1999. ICIP 99. Proceedings. 1999 International Conference on , Volume: 4 , 24-28 Oct. 1999

Pages:187 - 191 vol.4

[Abstract] [PDF Full-Text (340 KB)] **IEEE CNF**

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1 Industrial Session: Scalable streaming of JPEG2000 images using hypertext transfer protocol

Sachin Deshpande, Wenjun Zeng

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, index terms

This paper describes a scalable architecture for streaming of JPEG2000 images, using Hypertext Transfer Protocol (HTTP). JPEG2000 is a new image compression standard. One of the goals of JPEG2000 is to support large images. For a large image, even the compressed image file size can be very big. Thus downloading the entire image at its full resolution can take a long time depending upon the user's connection speed. Thus we propose to use streaming of JPEG2000 images. We use Hypertext transfer pro ...

**Keywords**: HTTP streaming, JPEG2000, image streaming, quality scalability, region-of-interest scalability, resolution scalability, scalable streaming

2 Multimedia coding and security: A flexible and scalable authentication scheme for JPEG2000 image codestreams

Cheng Peng, Robert H. Deng, Yongdong Wu, Weizhong Shao

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(207.02 KB) Additional Information: full citation, abstract, references, index terms

JPEG2000 is an emerging standard for still image compression and is becoming the solution of choice for many digital imaging fields and applications. An important aspect of JPEG2000 is its "compress once, decompress many ways" property [1], i. e., it allows extraction of various sub-images (e.g., images with various resolutions, pixel fidelities, tiles and components) all from a single compressed image codestream. In this paper, we present a flexible and scalable authentication scheme for JPEG20 ...

**Keywords**: JPEG2000, authentication, data integrity, digital signature, image compression, merkle hash tree, message digest, one-way hash function

3 JPEG2000: the new still picture compression standard

C. A. Christopoulos, T. Ebrahimi, A. N. Skodras

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available: pdf(790.51 KB) Additional Information: full citation, abstract, references, index terms

*This paper presents an overview of the upcoming JPEG2000 still picture compression standard. JPEG2000 is not only intended to provide rate-distortion and subjective image quality performance superior to existing JPEG standard, but to also provide functionality that*

*the current JPEG standard can either not address efficiently nor address at all. Lossless and lossy compression, encoding of very large images, progressive transmission by pixel accuracy and by resolution, robustness to the pres ...*

***Keywords**: JPEG, colour image coding, data compression, source coding, subband coding, wavelet transform*

4 Hardware acceleration of JPEG2000 image compression for low-power embedded applications

Darren Freeman, Greg Knowles

February 2003 **Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16**

Full text available: pdf(193.27 KB) Additional Information: full citation, abstract, references, index terms

JPEG2000 is ideal as the next-generation still image compression standard, and it is expected to replace JPEG for embedded applications such as digital cameras. These typically require low-power operation, so by combining a low-power microprocessor with a hardware accelerator to form a System on Chip (SoC), the burden of rapidly coding JPEG2000 images is moved to the accelerator. The performance requirements of the processor are significantly relaxed, leading to lower power consumption and poten ...

**Keywords**: EBCOT, JPEG2000, SoC, SoPC, embedded systems, image compression

5 Image Retrieval II: Fast image indexing based on JPEG2000 packet header

Chuping Liu, Mrinal Mandal

September 2001 **Proceedings of the 2001 ACM workshops on Multimedia: multimedia information retrieval**

Additional Information: full citation, abstract, references, index terms

The application of images and video has increased significantly in recent years. It is crucial to develop indexing techniques for searching images and video on their content. Due to the lower computational complexity, compressed domain indexing techniques are becoming popular. Among the compression techniques, discrete-wavelet-transform based techiques have become popular because of their excellent energy compaction and multi-resolution capability, and has been adopted in the JPEDG2000 image com ...

**Keywords**: JPEG2000, bit plane, bit stream, image indexing, packet header

6 Session 4: video processing and transformation: Tile boundary artifact reduction algorithms for tile size conversion of wavelet image

Masayuki HASHIMOTO, Kenji MATSUO, Atsushi KOIKE, Yasuyuki NAKAJIMA

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(309.48 KB) Additional Information: full citation, abstract, references

This paper proposes the tile size conversion method for the wavelet image transcoding gateway and a set of methods to reduce the tile boundary artifacts caused by the conversion.In the wavelet image coding system represented by JPEG2000, pictures are usually divided into one or more tiles and each tile then transformed separately. On low memory terminals such as mobile terminals, some decoders are likely to have limits on what tile sizes they can decode. Assuming a system using these limited dec ...

7 Digital preservation: A semi-automated digital preservation system based on semantic web services

Jane Hunter, Sharmin Choudhury

June 2004 **Proceedings of the 2004 joint ACM/IEEE conference on Digital libraries**

Full text available: pdf(357.74 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a Web-services-based system which we have developed to enable organizations to semi-automatically preserve their digital collections by dynamically discovering and invoking the most appropriate preservation service, as it is required. By periodically comparing preservation metadata for digital objects in a collection with a software version registry, potential object obsolescence can be detected and a notification message sent to the relevant agent. By making preservation so ...

**Keywords**: digital preservation, semantic web services

8 Robust digital watermarking: Digital image watermarking using complex wavelet transform

Nataša Terzija, Walter Geisselhardt

September 2004 **Proceedings of the 2004 multimedia and security workshop on Multimedia and security**

Full text available: pdf(713.64 KB) Additional Information: full citation, abstract, references, index terms

In this paper a new robust digital image watermarking method based on the Complex Wavelet Transform is presented. For improving its robustness features in the algorithm design the Error Correction Code is used. The technique is performed in spatial domain. The Complex wavelet transform is firstly used to adapt the watermark to the local image activity by using the visual masking. Secondly it is implemented to select the embedding space (embedding channels). The two embedding channels are obtaine ...

**Keywords**: attacks, complex wavelet transform, image processing, robust algorithms, watermarking

9 ITP: an image transport protocol for the internet

Suchitra Raman, Hari Balakrishnan, Murari Srinivasan

June 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 3

Full text available: pdf(321.66 KB) Additional Information: full citation, abstract, references, index terms

Images account for a significant and growing fraction of Web downloads. The traditional approach to transporting images uses TCP, which provides a generic reliable in-order bytestream abstraction, but which is overly restrictive for image data. We analyze the progression of image quality at the receiver with time, and show that the in-order delivery abstraction provided by a TCP-based approach prevents the receiver application from processing and rendering portions of an image when they actually ...

**Keywords**: computer networks, congestion control, internetworking, network adaptation, selective reliability, transport protocols

10 Technical poster session 1: multimedia analysis, processing, and retrieval: Region-of-interest based image resolution adaptation for MPEG-21 digital item

Yiqun Hu, Liang-Tien Chia, Deepu Rajan

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(560.28 KB) Additional Information: full citation, abstract, references, index terms

The upcoming MPEG-21 standard proposes a general framework for augmented use of multimedia services in different network environments, for various users with various terminal devices. In the context of image adaptation, terminals with different screen size limitation require the multimedia adaptation engine to adapt image resources intelligently. Saliency map based visual attention analysis provides some intelligence for finding the attention area within the image. In this paper, we improved ...

**Keywords**: MPEG-21, image adaptation, intelligent resolution, saliency map

11 Computer applications in health care (CAHC): Compression of mammograms for medical practice

Artur Przelaskowski

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: pdf(244.15 KB) Additional Information: full citation, abstract, references, index terms

This paper considers effective compression methods for mammogram storing and interchange. A controversy problem of irreversible compression of medical images is studied in clinical tests to check usefulness and possibility of acceptance of wavelet-based compression for clinical applications. Diagnostic accuracy is measured in abnormality detection tests with ROC-based analysis, and by subjective rating of diagnostically important image features affecting lesion symptoms and image ordering accord ...

**Keywords**: diagnostic accuracy evaluation, image compression

12 Optimizing document format: Two diet plans for fat PDF

Thomas A. Phelps, Robert Wilensky

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**

Full text available: pdf(198.98 KB) Additional Information: full citation, abstract, references, index terms

As Adobe's Portable Document Format has exploded in popularity so too has the number PDF generators, and predictably the quality of generated PDF varies considerably. This paper surveys a range of PDF optimizations for space, and reports the results of a tool that can postprocess existing PDFs to reduce file sizes by 20 to 70% for large classes of PDFs. (Further reduction can often be obtained by recoding images to lower resolutions or with newer compression methods such as JBIG2 or JPEG2000, bu ...

**Keywords**: PDF, compact PDF, compression, multivalent

13 How to bypass the Wassenaar arrangement: a new application for watermarking

Franck Leprévost, Raphaël Erard, Touradj Ebrahimi

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available: pdf(419.24 KB) Additional Information: full citation, abstract, references, index terms

The scope of this article is to clarify the current legal and political situation related to electronic surveillance on the one hand, and to export regulations for encryption software on the other hand. We will look at different international agreements, such as the UKUSA agreement and the Wassenaar arrangement, and elaborate on current encryption techniques falling under these regulations. This discussion is then followed by introducing the basic concepts of steganography and digital waterma ...

**Keywords**: Wassenaar arrangement, cryptography, steganography, watermarking

14 (Special session) invited talks: c-based design examples: Using C based logic synthesis to bridge the productivity gap

Chris Sullivan, Alex Wilson, Stephen Chappell

January 2004 **Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair 2004**

Full text available: pdf(375.82 KB) Additional Information: full citation, abstract

Digital circuits from software designs and formal executable specifications can be automatically synthesized using hardware compilation or 'C based logic synthesis'. Designs can be verified using that same formal specification and coupled with the increasing deployment of higher-level C based languages and IP reuse in hardware design and system codesign, C based logic synthesis is enabling new methodologies and levels of designer productivity. In this paper we discuss the rationale for such a sy ...

15 Technical poster session 1: multimedia analysis, processing, and retrieval: A reversible

color transform for 16-bit-color picture coding

Na Li, Jiajun Bu, Chun Chen

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(209.31 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes a reversible color transform for 16-bit-color (hicolor) picture coding. The work is motivated by the increasing needs of multimedia applications on low-end devices such as mobile phones and PDAs. They have limited resources and up to 16-bit displays. Current image/video coding systems can hardly manage this case effectively. To enhance coding efficiency on this condition, a reversible color transform customized for hicolor systems is derived from Y'CrCb and JPEG2000 Revers ...

**Keywords**: 16-bit color, coding efficiency, hicolor image, low-end, picture coding, reversible color transform

16 Demonstration session 2: Progressive proxy-based multimedia transcoding system with maximum data reuse

Chi-Hung Chi, Yang Cao

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(36.62 KB) Additional Information: full citation, abstract

In this paper, we propose a new proxy-based transcoding system based on a novel, scalable, and progressive transfer model for multimedia data. This system features on-the-fly transcoding on streaming web data with negligible overhead, maximum data reuse among different transcoded versions of a web object, and the optimal bandwidth usage between the proxy and the server. The importance of the system reflects not only in its feasibility in implementation but also in its matching with the new HTTP ...

17 Session 3: interfacing stored media I: IRW: an incremental representation for image-based walkthroughs

David Gotz, Ketan Mayer-Patel, Dinesh Manocha

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(661.73 KB) Additional Information: full citation, abstract, references

We present a new representation for image-based interactive walk-throughs. The target applications reconstruct a scene from novel viewpoints using samples from a spatial image dataset collected from a plane at eye-level. These datasets consist of pose augmented 2*D* images and often have a very large number of samples. Our representation exploits spatial coherence and rearranges the input samples as epipolar images. The base unit corresponds to a column of the original image that can be ind ...

18 The design and implementation of a progressive on-demand image dissemination system for very large images

Michael J. Owen, Andrew K. Lui, Edward H. S. Lo, Mark W. Grigg

January 2001 **Australian Computer Science Communications , Proceedings of the 24th Australasian conference on Computer science**, Volume 23 Issue 1

Full text available: pdf(855.36 KB) Publisher Site Additional Information: full citation, abstract, references

The use of progressive, on-demand image dissemination techniques can support efficient dissemination of very large images across networks. In this paper we examine the effectiveness of various design options in developing such on-demand dissemination systems. We show that the choice of the design options can have a profound impact on the efficient use of client, server, and network resources. Based on our performance evaluation experiments, we recommend that efficient dissemination can be achiev ...

19 Reconfigurable hardware solutions for the digital rights management of digital cinema

G. Rouvroy, F.-X. Standaert, F. Lefèbvre, J.-J. Quisquater, B. Macq, J.-D. Legat

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Full text available: pdf(440.86 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a hardware implementation of a decoder for Digital Cinema images. This decoder enables us to deal with image size of 2K with 24 frames per second and 36 bits per pixels. It is the first implementation known nowadays that perfectly fits in one single Virtex-II® FPGA and includes AES decryption, JPEG 2000 decompression and fingerprinting blocks. This hardware offers therefore high-quality image processing as well as robust security.

**Keywords**: AES, DRM, FPGA, JPEG 2000, digital cinema, watermarking

20 Database session 1: querying high-dimensional data: Multi-resolution modeling of large scale scientific simulation data

Chuck Baldwin, Ghaleb Abdulla, Terence Critchlow

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available: pdf(320.79 KB) Additional Information: full citation, abstract, references, index terms

To provide scientists and engineers with the ability to explore and analyze tera-scale size data-sets we are using a twofold approach. First, we model the data with the objective of creating a compressed yet manageable representation. Second, with that compressed representation, we provide the ability to query the resulting approximation in order to obtain approximate yet sufficient answers; a process called ad-hoc querying. This paper is concerned with a wavelet modeling technique that seeks to ...

**Keywords**: compression, data modeling, scientific data processing, wavelets



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